





TABLE OF CONTENTS

SEC	CTION	PAGE
1.	POWER AMPLIFIER ADJUSTMENT	1
	TEST EQUIPMENT REQUIRED FOR SERVICING	1
	VOLTAGE CONVERSION FOR EUROPE	3
4.	MAJOR COMPONENT LOCATIONS	4
	4.1 Front Panel Adjustment and Component Locations	4
	4.2 Main Chassis Component Locations (Top View)	4
	4.3 Rear Panel Adjustment and Component Locations	5
5.	DIAGRAM AND COMPONENT LOCATIONS	6
	5.1 Power Transformer Assembly (PNOO) Schematic Diagram and Component Locations	6
	5.2 Input Terminal Assembly (PJ00) Schematic Diagram and Component Locations	7
	5.3 Mic Assembly (PV00) Schematic Diagram and Component Locations	9
	5.4 Phono Amp. & Selector SW. Assembly (P400) Schematic Diagram and Component Locations	9
	5.5 Power Supply Assembly (P850) Schematic Diagram and Component Locations	12
	5.6 Speaker SW. Assembly (PS00) Schematic Diagram and Component Locations	13
	5.7 Tone Amp. Assembly (PEOO) Schematic Diagram and Component Locations	14
	5.8 Main Amp. Assembly (P700) Schematic Diagram and Component Locations	17
6.	BLOCK DIAGRAM	21
7.	CONNECTION DIAGRAM	23
8.	SCHEMATIC DIAGRAM	25 🌶
9.	EXPLODED MECHANICAL DIAGRAM	
	9.1 Cabinet	27
	9.2 Chassis	29
	9.3 Rear Panel for U.S.A. & Canadian Models	31
	9.4 Rear Panel for European Model	31
10.	PACKING MATERIAL EXPLODED VIEW	32
	PARTS LIST	33
12.	TECHNICAL SPECIFICATIONS	40

1. POWER AMPLIFIER ADJUSTMENT

1.1 DC-0FFSET Adjustment

Connect VTVM to J860 and J865 (or ground) and adjust left channel R739 until the meter indication reaches 0mV (±5mV). Similarly, connect VTVM to J861 and J865 (or ground) and adjust right channel R740 until the meter indication reaches 0mV (±5mV).

2. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 1122DC Stereo Console Amplifier. The wattmeter, AC voltmeter, and variable autotransformer may be assembled as a test fixture as shown schematically in Figure 1. The load resistors and AC ammeter may be assembled into a second test fixture as shown in Figure 2.

ltem	Manufacturer and Model No. (or equivalent)	Use			
Distortion Analyzer and Audio Oscillator	Sound Technologe, Model 1700B (NOTE: Less than 0.002 percent residual distortion is required.)	Measures distortion, voltage of amplifier output and sinewave source.			
Oscilloscope	Tektronix, Model 503; Data, Model 555	Waveform analysis and troubleshooting.			
VTVM	RCA Senior Volt-Ohmyst, Model WV-98C	Voltage and resistance measurements.			
AC Wattmeter	Simpson, Model 390	Monitors primary power consumption of amplifier.			
AC Ammeter (0 to 10 amps)	Commercial Grade	Monitors amplifier output under short circuit condition.			
Line Voltmeter (0 to 150V AC)	Commercial Grade	Monitors potential of primary power to amplifier.			
Variable Autotransformer (0 to 140V AC, 10 amps)	Powerstat, Model 116B	Adjusts level of primary power to amplifier.			
Shorting Plug	Use phono plug with 600 ohms across center pin and shell.	Shorts amplifier input to elimi- nate noise pickup.			
Power Supply Bleeder Resistor (10 ohms at 1W)	Commercial Grade	Discharges power supply filter capacitors prior to disassembly or resistance measurements.			
Output Load Resistor (8 Ω ±0.5%, 250W)	Commercial Grade	Provides 4-ohm load for amplifier output termination.			
Output Load Resistor $(4\Omega \pm 0.5\%, 250W)$	Commercial Grade	Provides 8-ohm load for amplifier output termination.			
Output Load Capacitor (0.5 mfd)	Mylar	Provides capacitive load for instability checks.			
AC Power Control Box	Optional Item. Fabricate in accordance with Figure 1.	Monitors and controls primary power for amplifier.			
Amplifier Output Load Box	Optional Item. Fabricate in accordance with Figure 2.	Provides various amplfier loads and can monitor shorted output.			

Table. 1 Test Equipment Required for Servicing

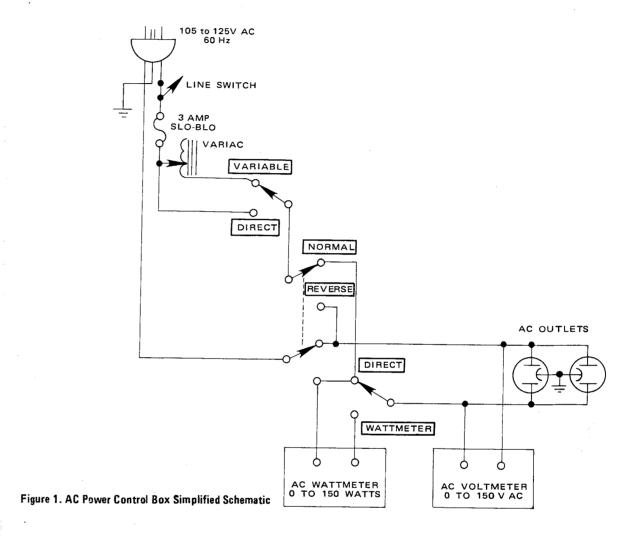


Figure 2. Amplifier Output Load Box Simplified Schematic

3. VOLTAGE CONVERSION

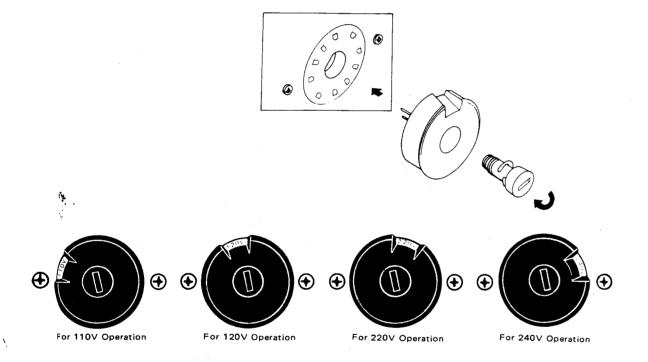
• EUROPEAN MODEL ONLY

This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240V AC 50/60~Hz.

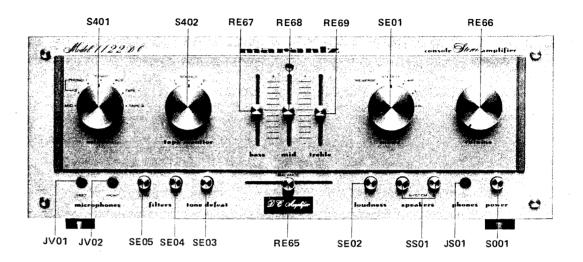
To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

CAUTION

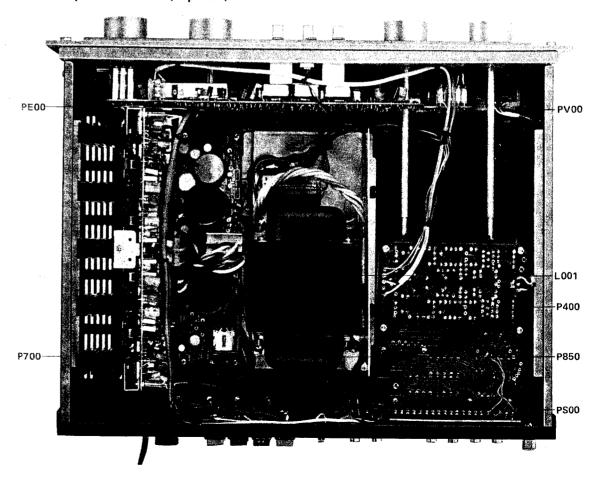
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.



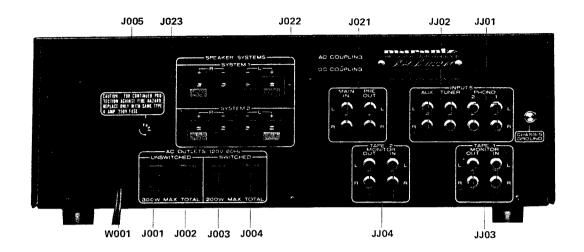
4.1 Front Panel Adjustment and Component Locations



4.2 Main Chassis Component Locations (Top View)



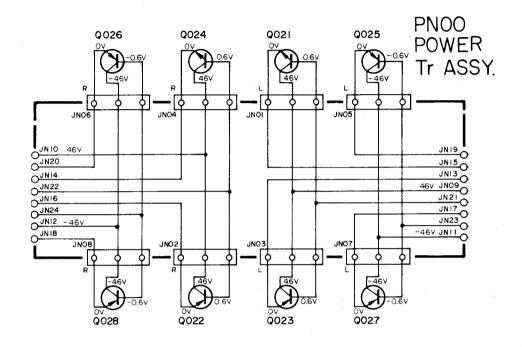
4.3 Rear Panel Adjustment and Component Locations

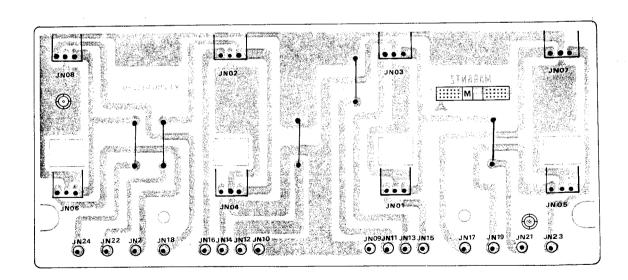


BERGERPERENTY

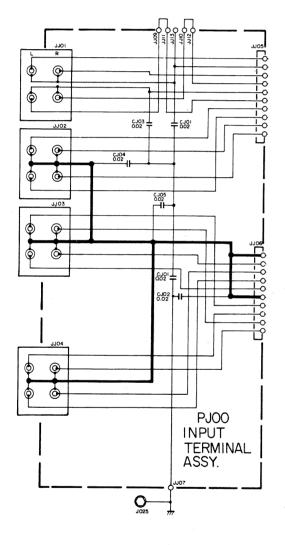
5. DIAGRAM AND COMPONENT LOCATIONS

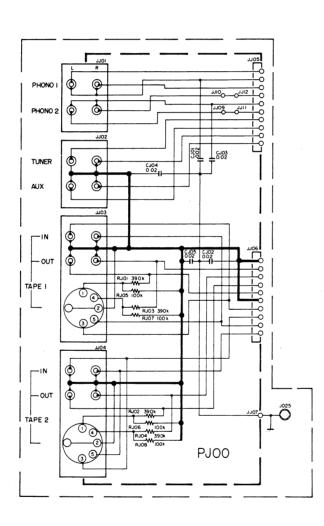
5.1 Power Transformer Assembly (PN00) Schematic Diagram and Component Locations





5.2 Input Terminal Assembly (PJ00) Schematic Diagram

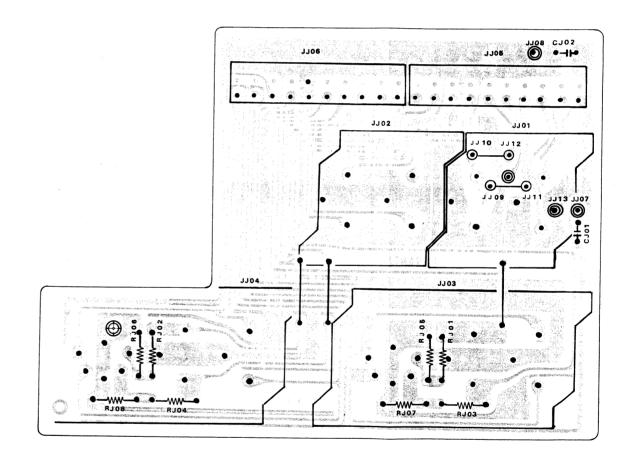




For U.S.A., Canada

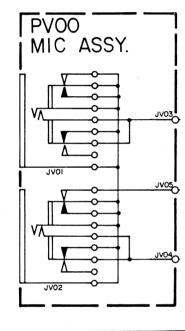
For Europe

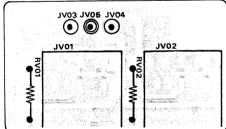
● Input Terminal Assembly (PJ00) Component Locations

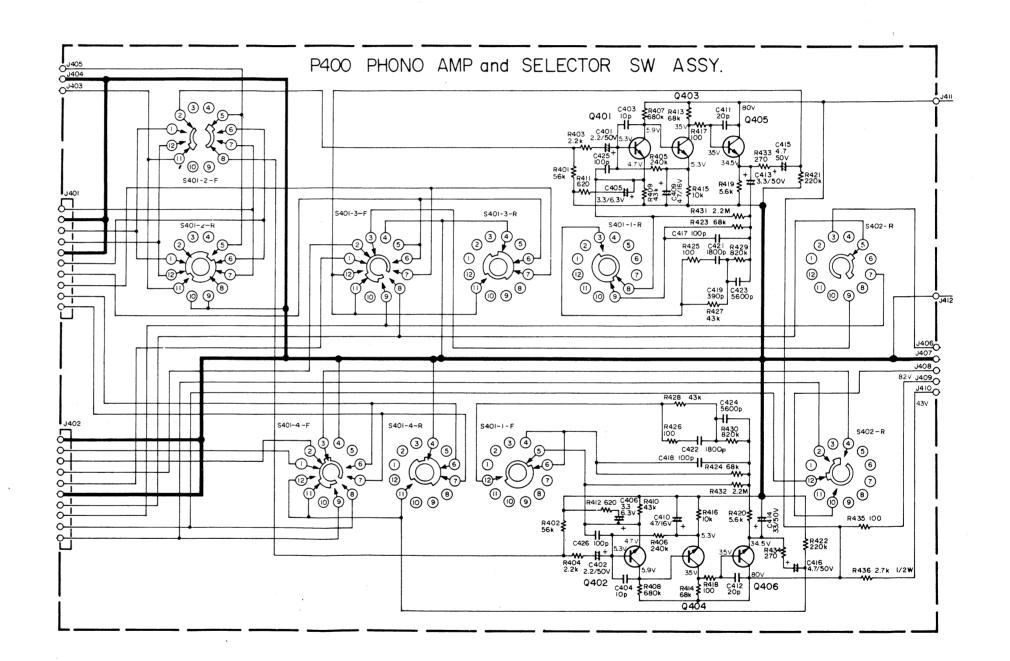


5.3 Mic Assembly (PV00) Schematic Diagram and Component Locations

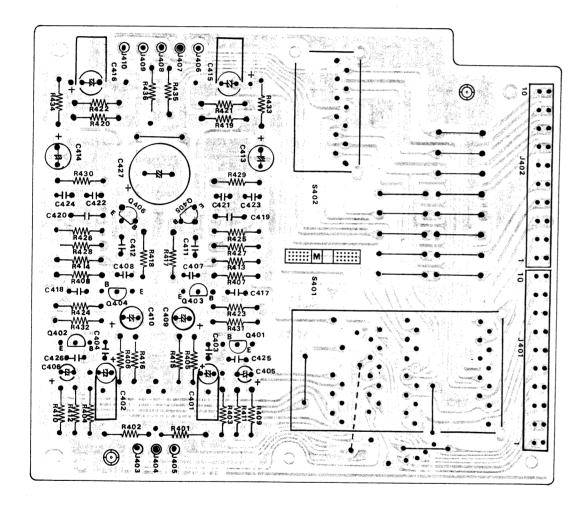
5.4 Phono Amp. & Selector SW. Assembly (P400) Schematic Diagram



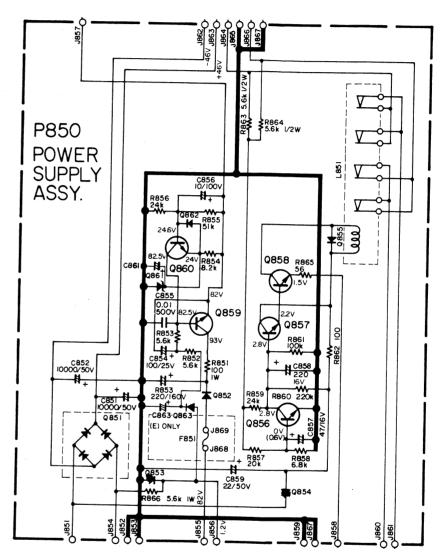


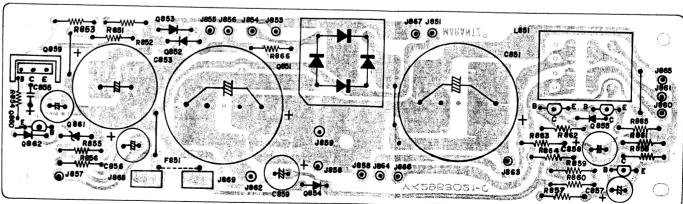


• Phono Amp. & Selector SW. Assembly (P400) Component Locations

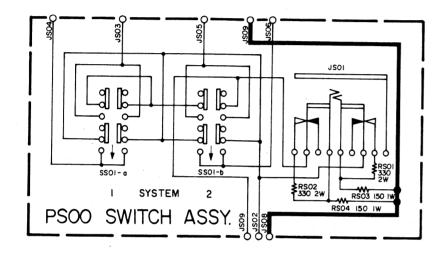


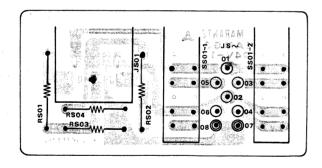
5.5 Power Supply Assembly (P850) Schematic Diagram and Component Locations



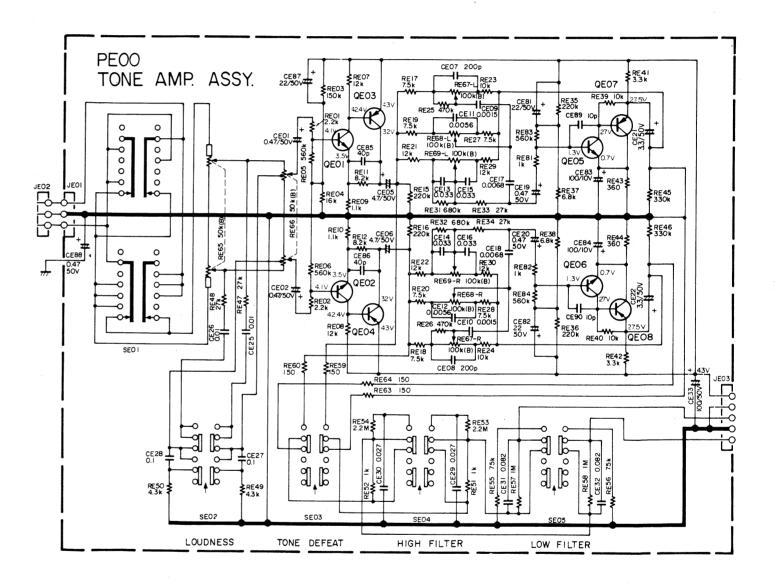


5.6 Speaker SW. Assembly (PS00) Schematic Diagram and Component Locations

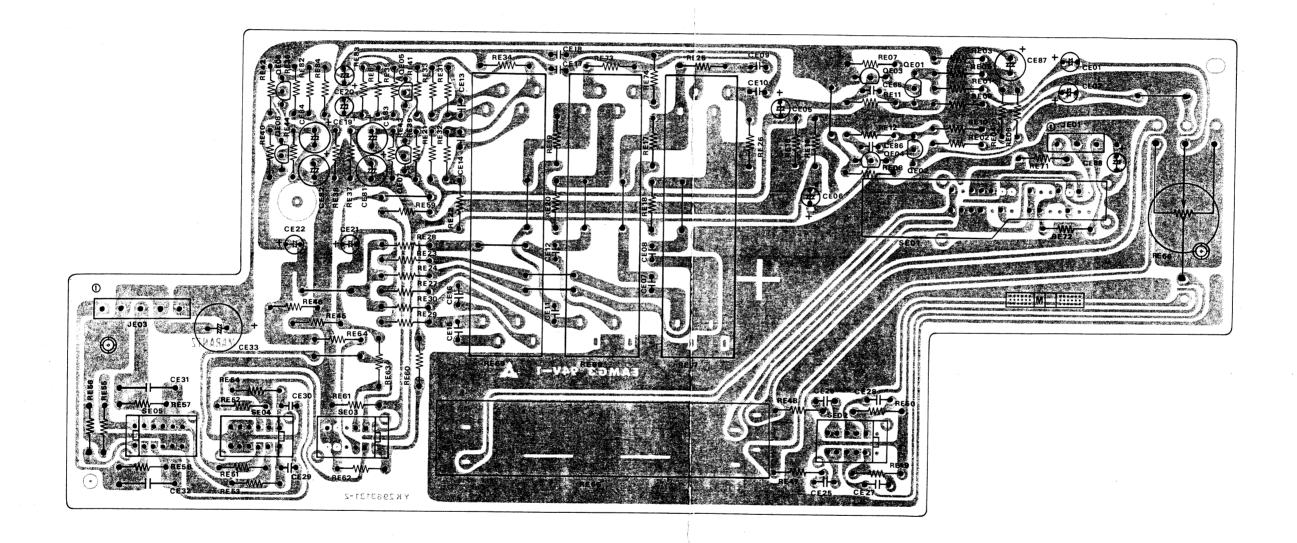




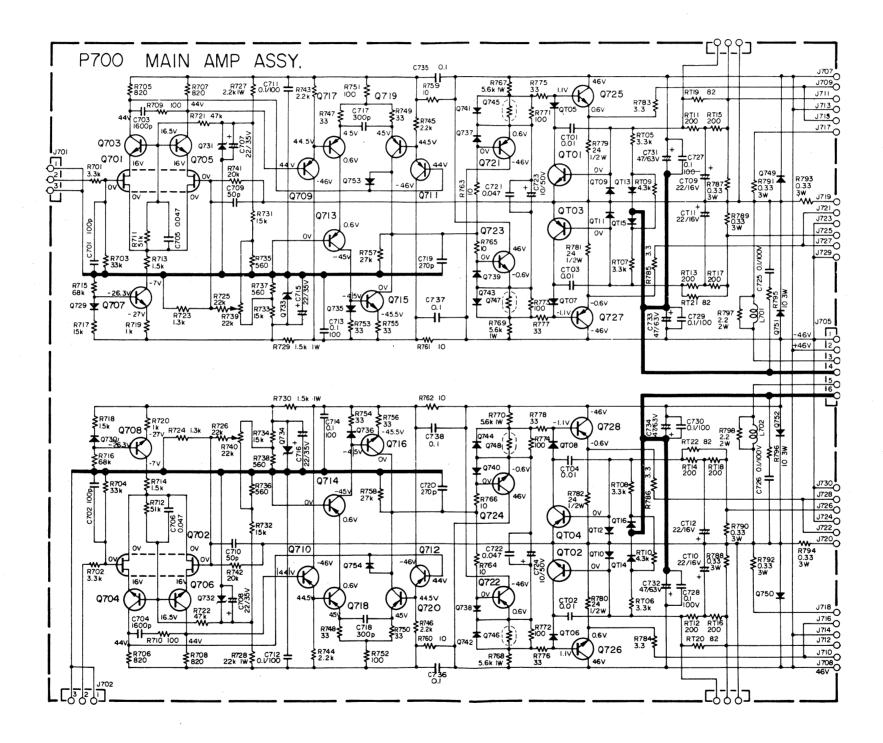
5.7 Tone Amp. Assembly (PE00) Schematic Diagram



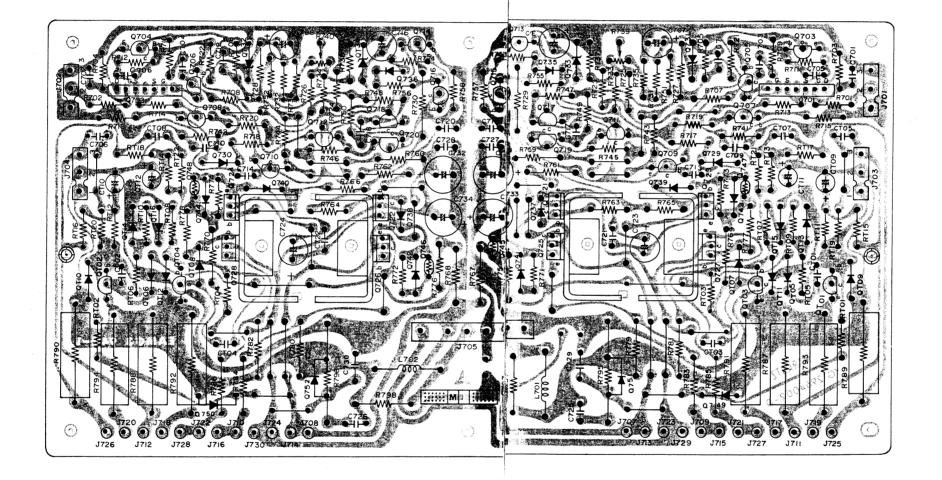
● Tone Amp. Assembly (PE00) Component Locations



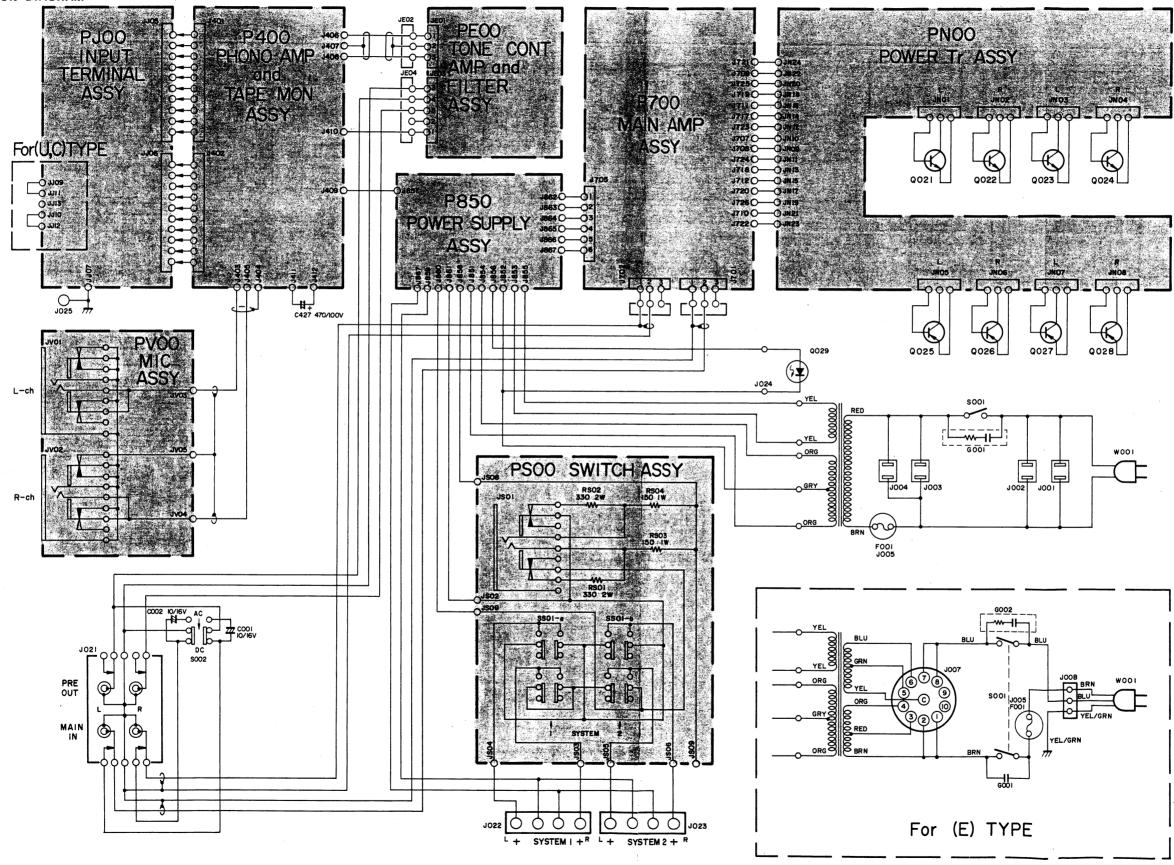
5.8 Main Amp. Assembly (P700) Schematic Diagram



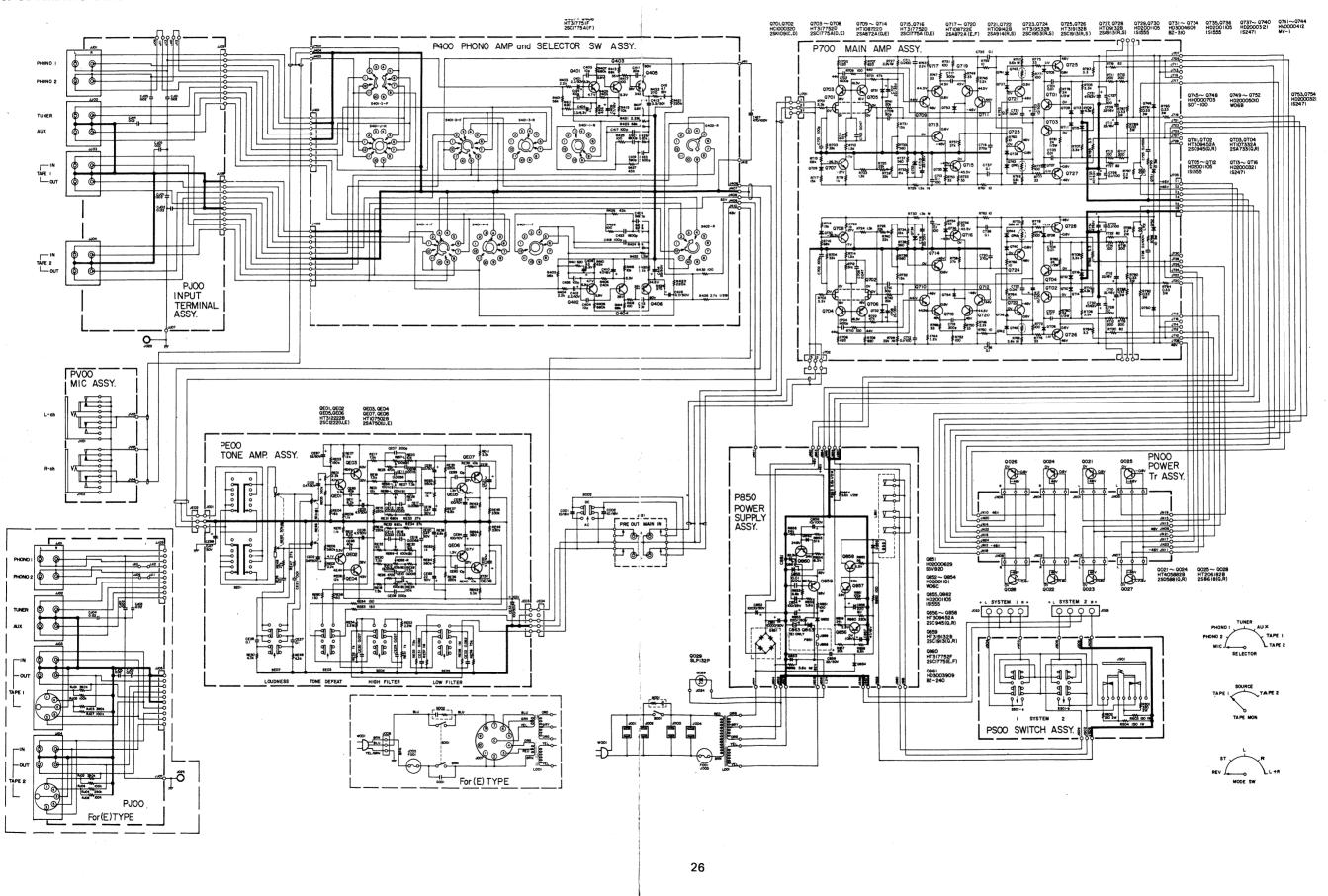
• Main Amp. Assembly (P700) Component Locations



7. CONNECTION DIAGRAM

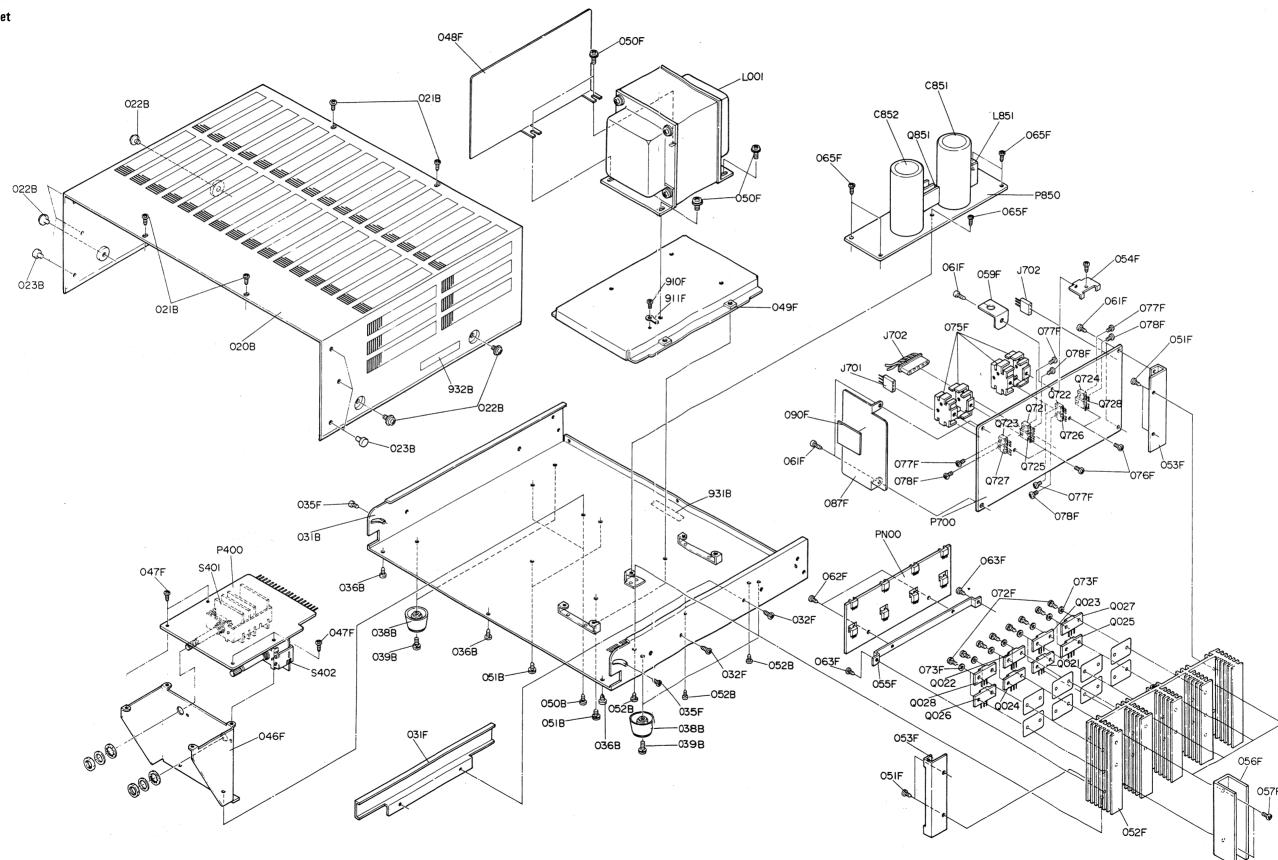


8. SCHEMATIC DIAGRAM

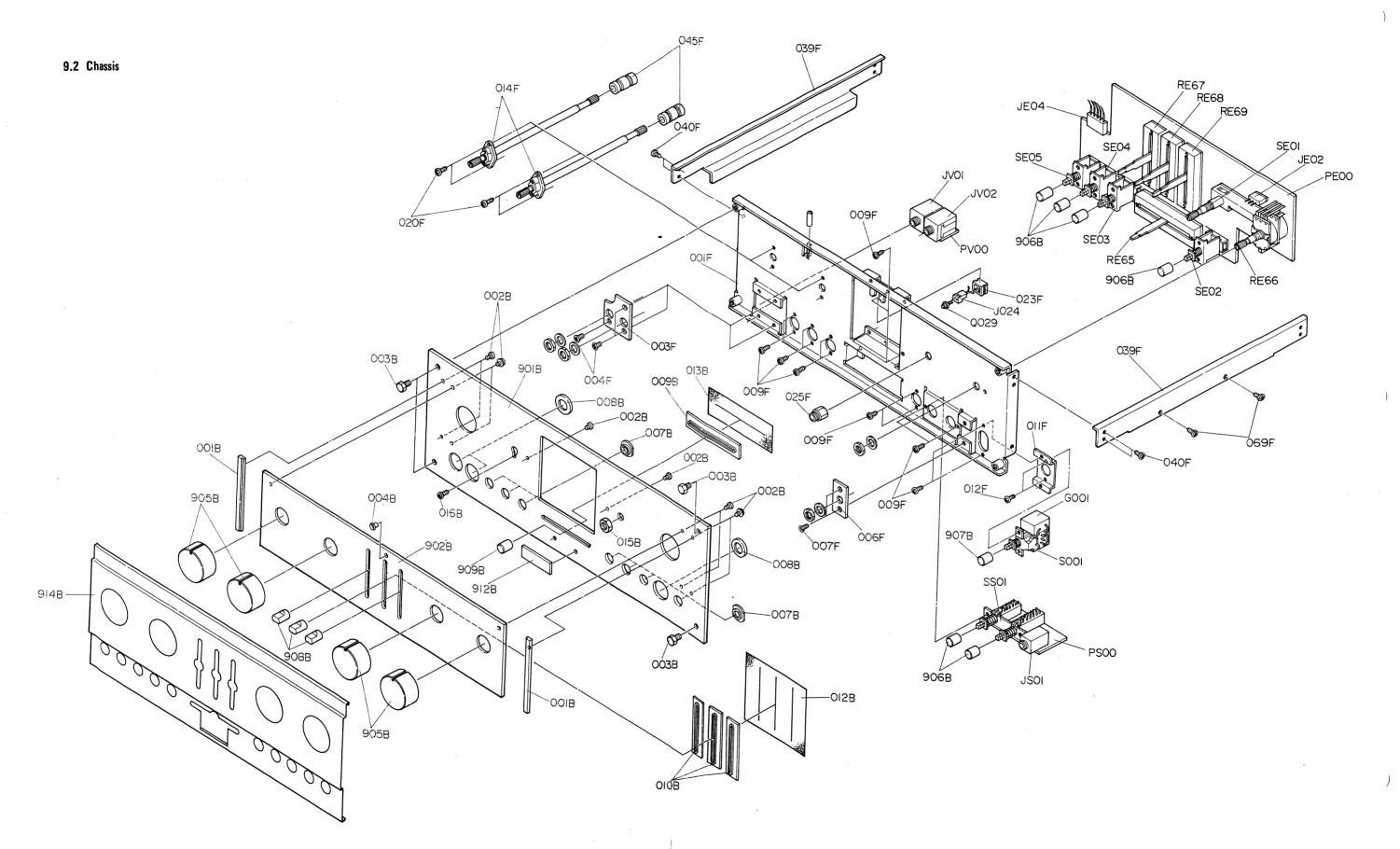


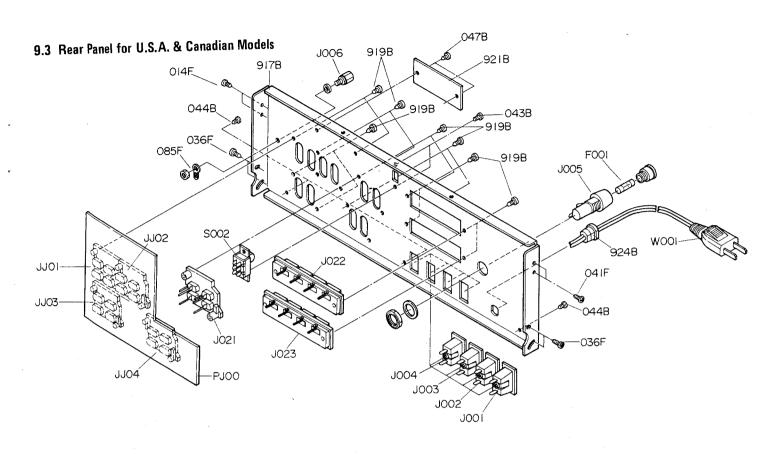
9. EXPLODED MECHANICAL DIAGRAM

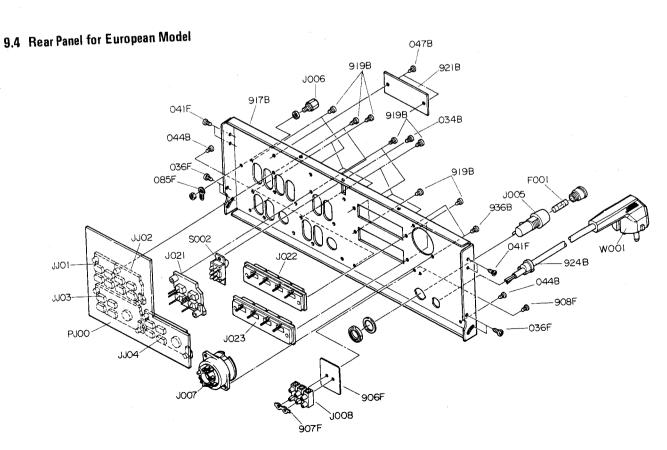
9.1 Cabinet





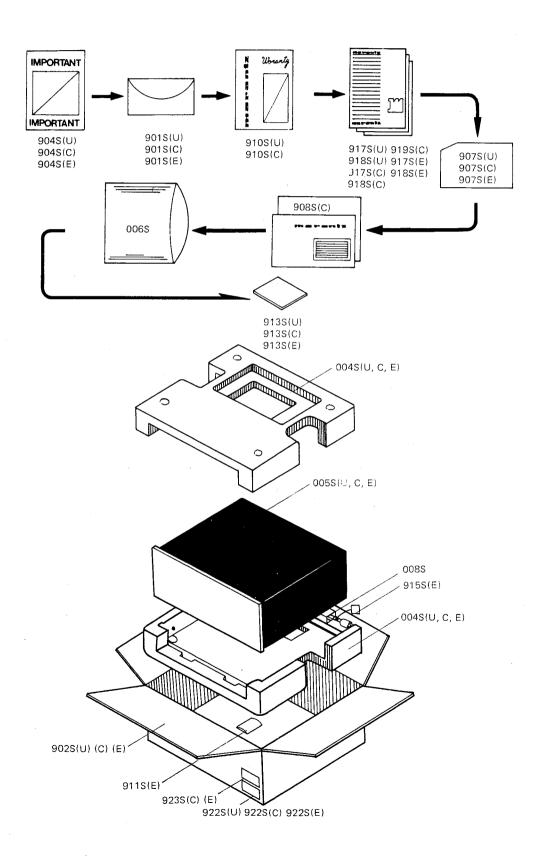






BENER BOARDEZ

10. PACKING MATERIAL EXPLODED VIEW



11. PARTS LIST

			0.00
•	(C)	for	Canada
•	(E)	for	Europe

										i I			
REF.		ľΤ		PART NO.	DESCRIPTI	ON	REF.		C	Y E	PART NO.	DESCRIPT	ION
DESIG.	U	С	Ë				-	Ŀ	_	┢			
				0000000400	Front Panel Assembly	1	044B	3	3	3	51280308U0	B. H. Tapped Screw,	B3 x 8
A	1 2	1 2	1	2963063400 2965063050	Escutcheon	ļ	045F	2	2	2	2963125010	Joint	1
001B 002B	10		2 10		F. Washer Screw	1	046F	1	1	1	2963160020	Bracket	03 × 6
002B	1	1	1	2979259022	Bushing		047B	2	2	2	51760306B0	OS Tapped Screw,	B3 × 6
007B	7	7	7	2978259012	Bushing		047F	4	4	4	51280306B0 2963109010	B. H. Tapped Screw, Shield	55 × 0
008B	3	3	3	2978259020	Bushing		048F	1	1	1	2963105010	Chassis	}
009B	1	1	1	2926259040	Bushing	l	049F 050B	1 2	2	2	51100306S9	B. H. M. Screw,	B3 x 6
010B	3	3	3	2970259010	Bushing		050F	4	4	4	51490510A9	L. Washer Screw,	L5 x 10
012B	1	1	1	2970303010	Mask		051B		4	4	51100410S9	B. H. M. Screw,	B4 x 10
013B	1	1	1	2926303020	Mask	ĺ	00.5		١.	•			_
	١.		١.		Escutcheon		051F	4	4	4	51280306B0	B. H. Tapped Screw,	B3 x 6
901B	1	1	1	2963063014	Escutcheon		052B	3	3	3	51280308U0	B. H. Tapped Screw,	B3 × 8
902B	1	1	1	2963063022 2979251040	Badge		052F		1	1	2963267014	Heatsink	
912B 914B		1	1	2963053012	Cover		053F	i.	2	2	2963160140	Bracket	
9146	١.	'	١'	2500000012	•	İ	054F		1	1	2963160130	Bracket	
							055F	1	1	1	2963160040 2963267042	Bracket Heat Sink	
							056F		4	4	51280306U0	B. H. Tap Screw	
	İ						057F		8	8	2963120020	Insulator	
							059F 061F	5	5	5	51280306B0	B. H. Tapped Screw,	B3 × 6
			Į				0017	5	3	1	312000000	5 ,	
		_	1	3444118050	Spacer		062F	2	2	2	51280306B0	B. H. Tapped Screw,	B3 x 6
P407	l -	4	8	75061751P0	Jumper		063F		2		51280306B0	B. H. Tapped Screw,	B3 x 6
P412	8	8	0,		Spacer		065F		5		51280306B0	B. H. Tapped Screw,	B3 x 6
P708	36	26	26	75061001P0	Jumper		069F		2		51280308B0	B. H. Tapped Screw,	B3 x 8
P711	6	6	6	75061501P0	Jumper		072F	16	16	16	51470312B9	L. Washer Screw,	L3 x 12
P712	1	8	1	3444118050	Spacer		075F		4	4	2212267020	Heatsink	
P857	0	°	0	3444110000	Орисс		076F		4	4	51100305S9	B. H. M. Screw,	B3 x 5
001F	1	1	1	2963160010	Bracket		077F	4	4	4	51280305U0	B. H. Tapped Screw,	B3 x 5
003B		1	4	52017069J0	H. Head Bolt		078F	4	4	4	51280308U0	B. H. Tapped Screw,	B3 × 8
003F	1		1	2963120012	Insulator		081F	1	1	1	2915267020	Heatsink	
004F			3	51340306B0	F. H. Tapped Screw,	F3 x 6	Ì						B3 x 6
0048	1	.4	2	2963809020	Cushion		082F	1	1		5128306U0	B. H. Tapped Screw,	D3 X O
0058		1	1	9014335330	Polyethylene Bag		085F		1	4	62030049W0		
006F	1	1	1.	2970120020	Insulator		087F	1	1		2963109020	Shield B. H. Tapped Screw,	B3 x 6
0068		1		9013025010	Polyethylene Bag	F3 x 6	088F	1	1	- 1	51280306B0 62030049W0	Lug	50 A 5
007F				51340306B0	F. H. Tapped Screw,	F3 X U	089F	1	1		2922120010	Insulator	
0088	1	1	1	2864804010	Sleeve		090F	1	1	'	2577813010	Envelope	
			۔ ہا۔	F110020640	B. H. M. Screw,	B3 x 6	9015	'		1	2818813010	Envelope	
009F			44	51100306A0 2963160090	Bracket	B0 % 0	9015		1	1	2918813012	Envelope	
011F					1	B3 × 6	9028	1	1	- 1	2963801010	Packing Case	
012F 014F	. 2	2			Shaft		5525	1	'				
0146					1		9048	1		1	2577851020	Instructions	
0166			i		1 <u>-</u>	P2.6 x 8	9048		1	1	2818851120	Instructions	
0206				2963257013	Lid		905B	4	4	4	2963154010	Knob	
0206		1 .	- 1		B. H. Tapped Screw,	B3 x 6	906B	6	6	6	2963154032	Knob	
0201	1 -			1	B. H. Tapped Screw,	B3 x 6	906F	- 1		1	4113120010	Insulator	
0226	٠.	1 .		51480406S9	F. Washer Screw,	F4 × 6	907B		1		2963154022	Knob	
					1		907F	- 1	1	1	2970005010	Clamper Guarantee Card	
0238	3 6				1		9078			۱.	2577854012 9630000180	Guarantee Card	
023	: 1	1	1				9078		1			Knob	
0256		- 1	t .		1		908B	3	3	3	25/0104023	Kiloo	
0316			- 1							2	5110031459	B. H. M. Screw,	B3 x 14
031			1 1		1 –	B3 x 6	9085	- i	1	4	9650000050	1 - 1	
032		- 1	2 2		1	B3 x 6	9098	- 1				1	
0351			2 2			B4 x 10	9108	3	- 1	Ι.	2818854022		
036			3 3			B3 x 6	9108		1		2818854040	1	
0361	- 1	- 1	1 4		1	-	9118	- 1	'	1		1	
0381	' '	۲ ۲	`	2002007010	3			-					
0394	B 4	4 4	1 4	5157041080	P. Tapped Screw,	P4 x 10	11						
039			2 2		Stay								
040				51280306B0	B. H. Tapped Screw,	B3 × 6		1	1				
041	٠,		4 4	1	B. H. Tapped Screw,	B3 × 6							
043				2 51100306S9	B. H. M. Screw,	B3 x 6			1				
	-												
		ı					ــــا ا						

						• (E) for Europe								
REF.		<u>ד'ב</u>		PART NO.	DESCRIPTION	REF.		D'T		PART NO.	DESCRIPTION			
DESIG	. บ	C	E	PARI NO.	DESCRIPTION	DESIG	U.	C	E	PART NO.	DESCRIPTION			
	+	+	-				+	+-	+-	 				
9138	1			2818851040	Instructions	CE27	1	1	1	DF16104010	Film Cap., 0.1µF ±20% 50V			
9138	į .	1	1	2818851140	Instructions	CE28	1	1	- 1	DF16104010	Film Cap., 0.1 µF ±20% 50V			
9158		1	1	9560000042	Hang Tag	CE29	1	1		DF15273010	Film Cap., 0.027µF ±5% 50V			
917B	1	1		2963160214	Bracket	CE30		1	1	DF15273010	Film Cap., 0.027µF ±5% 50V			
917B	1	Ι΄	1	2963160223	Bracket	CE31	1	1	1	DF15823050	Film Cap., 0.082µF ±5% 50V			
9178	1		1	2963851010	Instructions	CE32	1	1	1	DF15823050	Film Cap., 0.082µF ±5% 50V			
9175	1.	1	1	2963851310	Instructions	CE33	1	1	1	EA10705090	Electrolytic Cap., 100μF 50V			
9188	İ	1	∣'	2886851100	Instructions	CE81	i	1	1	EA22605090	Electrolytic Cap., 22µF 50V			
9185	1	1'	ļ	2963851020	Instructions	CE82	1	1		EA22605090	Electrolytic Cap., 22µF 50V			
9188	'	ľ	1	2963851030	Instructions	CE83	1	i	1	EA10701090	Electrolytic Cap., 100µF 10V			
3100			'	2903031030	Instructions	CE84	1	1	1	EA10701090	Electrolytic Cap., 100µF 10V			
919B	14	14	16	51280308U0	B.H. Tapped Screw, B3 x 8		•	١.	1.		Zissii siyilis sapi,			
9198		1	.0	2963851050	Instructions	CE85	1	1	1	DD15400010	Ceramic Cap., 40pF ±5% 50V			
921B	1	'		2963265010	Indicator	CE86	1	1	1	DD15400010	Ceramic Cap., 40pF ±5% 50V			
921B	'	1		2963265020	Indicator	CE87	1	1		EA22605090	Electrolytic Cap., 22µF 50V			
921B		Ι'	1	2963265030	Indicator	CE88	1	i	- 1	EA47405090	Electrolytic Cap., 0.47µF 50V			
9228	3		•	9522815010	Serial No. Card	JE01	1	i	1	YP06001040	Plug, Input Basepost			
922S			3	9523015110	Serial No. Card	JE02	1	1	1	YJ06001040	Jack, Input			
922S		3		9523015110	Serial No. Card	JE03	1	1	1	YP06001050	Plug, Output Basepost			
9235		2	2	9510901020	1	JE03	1	1	1	YJ06001050	, ,			
	1	1	2		Label	JE04	'	'	1'	1300001250	Jack, Output			
924B	'	'		1455259030	Bushing						PEON TONE CONTROL BOARD			
0245				1455050040	Bushins	PE00	,	4	1	VK20621210	PE00 TONE CONTROL BOARD			
924B			1	1455259040	Bushing	PEUU	1	1		YK29631310	P.W. Board			
925B	1	1	2	62040029W0	Lug		1	1	1	ZZ29631310	P.W. Board Assembly			
930B	1		١.	2991861010	Label	0-04		١.	١.		- ·			
931B	1	١.	1	2578861010	Label	QE01	1	1	1	HT312222B0	Transistor, 2SC1222 (U or E)			
931B		1		2911861110	Label	QE02	1	1	1	HT312222B0	Transistor, 2SC1222 (U or E)			
932B		1		2911861143	Label	QE03	1	1	1	HT107502B0	Transistor, 2SA750 (U or E)			
932B	1	١.	1	2932861012	Label	QE04	1	1	1	HT107502B0	Transistor, 2SA750 (U or E)			
933B		1		9510911010	Label	QE05	1	1	1	HT312222B0	Transistor, 2SC1222 (U or E)			
933B	1			9511101010	Label	QE06	1	1	1	HT312222B0	Transistor, 2SC1222 (U or E)			
935B		1		2911861270	Label	QE07	1	1	1	HT107502B0	Transistor, 2SA750 (U or E)			
					·	QE08	1	1	1	HT107502B0	Transistor, 2SA750 (U or E)			
936B		1		2911861012	Label	RE01	1	1	1	RT05222140	Resistor, 2.2k Ω ±5% ¼W			
936B			2	51280306U0	B.H. Tapped Screw, B3 x 6	RE02	1	1	1	RT05222140	Resistor, $2.2k\Omega \pm 5\% $			
937B		1		2911861192	Label									
938B		1		2911861162	Label	RE03	1	1	1	RT05154140	Resistor, $150k\Omega \pm 5\% \%$			
						RE04	1	1	1	RT05163140	Resistor, $16k\Omega \pm 5\% $			
CE01	1	1	1	EE47405040	Electrolytic Cap., 0.47µF ±20% 50V	RE05	1	1	1	RT05564140	Resistor, $560k\Omega \pm 5\% $			
CE02	1	1	1	EE47405040	Electrolytic Cap., 0.47µF ±20% 50V	RE06	1	1	1	RT05564140	Resistor, $560k\Omega \pm 5\% $ ¼W			
CE05	1	1	1	EE47505040	Electrolytic Cap., 4.7 µF ± 20% 50V	RE07	1	1	1	RT05123140	Resistor, $12k\Omega \pm 5\%$ ¼W			
CE06	1	1	1	EE47505040	Electrolytic Cap., 4.7 µF ±20% 50V	RE08	1	1	1	RT05123140	Resistor, $12k\Omega \pm 5\%$ ¼W			
CE07	1	1	1	DD16201010	Ceramic Cap., 200pF ±10% 50V	RE09	1	1	1	RT05102140	Resistor, $1k\Omega \pm 5\%$ %W			
CE08	1	1	1	DD16201010	Ceramic Cap., 200pF ±10% 50V	RE10	1	1	1	RT05102140	Resistor, $1k\Omega \pm 5\%$ %W			
CE09	1	1	1	DF15152010	Film Cap., 1500pF ±5% 50V	RE11	1	1	1	RT05822140	Resistor, $8.2k\Omega \pm 5\%$ ¼W			
CE10	1	1	1	DF15152010	Film Cap., 1500pF ±5% 50V	RE12	1	1	1	RT05822140	Resistor, $8.2k\Omega \pm 5\%$ %W			
CE11		1	1	DF15562010	Film Cap., 5600pF ±5% 50V			-			,			
CE12		1	1	DF15562010	Film Cap., 5600pF ±5% 50V	RE15	1	1	1	RT05224140	Resistor, 220k Ω ±5% ¼W			
. -		'		,0002010	50p., 500opi ±5/0 50V	RE16	1	1	1	RT05224140	Resistor, $220k\Omega \pm 5\%$ ¼W			
CE13	1	1	1	DF15333010	Film Cap., 0.033µF ±5% 50V	RE17	1		1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ ¼W			
CE14	i	1	1	DF15333010	Film Cap., 0.033µF ±5% 50V	RE18	1		1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ ¼W			
CE15	i	1	1	DF15333010	Film Cap., 0.033µF ±5% 50V	RE19	1		1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ ¼W			
CE16	1	1	1	DF15333010	Film Cap., 0.033µF ±5% 50V	RE20	1		1	RT05752140	Resistor, 7.5k Ω ±5% $\frac{1}{2}$ W			
CE17	1	1	1	DF15682010		RE21	1		1	RT05/52140	Resistor, $7.5k\Omega$ ±5% $\frac{1}{2}$ W			
CE18	1	1	1	DF15682010	• • • • • • • • • • • • • • • • • • • •	RE22	1		1	RT05123140				
CE19	1	1		EA47405090	Film Cap., 6800pF ±5% 50V Electrolytic Cap., 0.47µF 50V	RE23	1	1	1	RT05123140				
CE20			1				- 1		1					
CE21	1	1	1	EA47405090	Electrolytic Cap., 0.47µF 50V	RE24	1	1	'	RT05103140	Resistor, $10k\Omega \pm 5\%$ %W			
	1	1	1	EA33505090	Electrolytic Cap., 3.3µF 50V	DEST	,	1	4	DTOE474440	Peristan 4701:0 FM 1/141			
CE22	1	1	1	EA33505090	Electrolytic Cap., 3.3µF 50V	RE25	1	1	1	RT05474140	Resistor, $470k\Omega \pm 5\%$ %W			
CE25	4			DE15100010	Film C 0.004 F : F0/ F0/	RE26	1	1	1	RT05474140	Resistor, $470k\Omega \pm 5\%$ %W			
	1	1	1	DF15103010	Film Cap., 0.001µF ±5% 50V	RE27	1	1	1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ %W			
CE26	1	1	1	DF15103010	Film Cap., $0.001 \mu F \pm 5\% 50V$	RE28	1	1	1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ %W			
		.				RE29	1	1	1	RT05123140	Resistor, $12k\Omega \pm 5\%$ ¼W			
		1 1				i i		L	1					

REF.		T)		PART NO.	DE	SCRIPTION		
ESIG.	U	C	E					
RE30	1	1	1	RT05123140	Resistor,	12kΩ	±5%	14W
RE31	1	1	i	RT05684140		680kΩ	±5%	14W
RE32	1	1	1	RT05684140		680kΩ	±5%	1/4W
RE33	1	1	1	RT05273140	1	$27k\Omega$	±5%	14W
RE34	1	1	Ι'n	RT05273140	1	$27k\Omega$	±5%	14W
	1	1	1	RT05224140	1	220k Ω	±5%	1/4W
RE35	1		1	RT05224140		220kΩ	±5%	1/4W
RE36	1	1	1 -	1		6.8kΩ	±5%	14W
RE37	1	1	1	RT05682140		6.8kΩ	±5%	¼W
RE38	1	1	1	RT05682140	1 .	10kΩ	±5%	14W
RE39	1	1	1	RT05103140	Resistor,	10K22	10/0	/4 * *
RE40	1	1	1	RT05103140	Resistor,	10kΩ	±5%	14W
RE41	1	1	1	RT0582214		8.2 k Ω	±5%	1/4W
RE42	1	1	1	RT05822140	1	8.2kΩ	±5%	1/4W
RE43	1	1	1	RT0536114		360Ω	±5%	14W
	1	1	1	RT0536114		360Ω	±5%	14W
RE44	1 -	1 .	1	RT0533414	1	330kΩ	±5%	1/4W
RE45	1	1	1 -	RT0533414		330kΩ	±5%	1/4W
RE46	1	1	1	i	1		±5%	14W
RE47	1	1	1	RT0527314	1	27kΩ		14W
RE48	1	1	1	RT0527314		27kΩ	±5% ±5%	
RE49	1	1	1	RT0543214	Resistor,	4.3kΩ	±5%	%W
RE50	1	1	1	RT0543214	Resistor,	4.3kΩ	±5%	½W
	1	1	1	RT0510214		1kΩ	±5%	1⁄4W
RE51	1 -		1 .	RT0510214	1	1kΩ	±5%	1/4W
RE52	1	1	1		1	2.2MΩ	±5%	1/4W
RE53	1	1	1	RT0522514		2.2MΩ	±5%	1/4W
RE54	1	1	1	RT0522514			±5%	1/4W
RE55	1	1	1	RT0575314		75kΩ		
RE56	1	1	1	RT0575314	1	75kΩ	±5%	1/4W
RE57	1	1	1	RT0510514		1ΜΩ	±5%	¼W
RE58	1	1	1	RT0510514	D Resistor,	1MΩ	±5%	¼W
RE59	1	1	1	RT0515114	Resistor,	150Ω	±5%	¼W
~=~~	١.	١.	١.	DT0515114	0 Resistor,	150Ω	±5% ·	¼W
RE60	,	1	1	RT0515114	-	150Ω	±5%	1/4W
RE63	1	1	1	RT0515114			±5%	14W
RE64		1	1	RT0515114	1	150Ω	±5% Ω Bala	
RE65		1	1 '	RS0503032				
RE66	1	1	1 .		1		Ω Volu	
RE67	1	1	1		_		Ω Treb	
RE68	1	1	1	RS0104004			Ω Mid	
RE69	1	1	1	RS0104004	0 ∣ Variable Re	esistor, 100k	Ω Bass	
RE81	1	1	1	RT0510214	0 Resistor,	1kΩ	±5%	14W
RE82	1	1	1	RT0510214	O Resistor,	1kΩ	±5%	14 W
	1.			DE0550444	0	560kΩ	±5%	14W
RE83		1	- 1					14W
RE84		1	- 1			560kΩ	±5%	/4 8 1
SE01	1		1					
SE02	1	- 1		1				
SE03	1	1	1	SP0401021				
SE04	1	1	1	SP0401021) Pushswitch	ı, High Filt	er, 5kh	Z
SE05	1	1	1	SP0401021) Pushswitch	, Low Filt	er, 60H	
CJ01		1	1	DK1820301	O Ceramic Ca	ap., 0.02μF		50\
CJ02	1	- 1	1	DK182030	O Ceramic Ca	ap., 0.02μF		50\
JJ01	1		1			Phono 1,	2 Input	
						T	1	
JJ02	1	1			1	Tuner Au Tape 1 Iu		
1103			. 1			Tape 1 II		
1103	1	1	I	YT020401				
JJ04				BY0105006	30 Jack,	Tape 2 I		
JJ04	1		1	YT020401!		Tape 2		ıtput
JJ05	1	Η.	1 '	I YJ0600040		10P Con		
JJ06	1	1 :	1	1 YJ0600040	0 Jack,	10P Con	nector	
	1	ļ		1				
	1							
	1	- 1	- 1	1	1			

				_		• (E) for Europe
REF. DESIG.		C			PART NO.	DESCRIPTION
PJ00	1	1	1		YF29630010 ZZ29631010 ZZ29638010	PJ00 INPUT TERMINAL BOARD P.W. Board P.W. Board Assembly P.W. Board Assembly
RJ01 RJ02 RJ03 RJ04 RJ05 RJ06 RJ07 RJ08			1 1 1 1 1 1		RT05394140 RT05394140 RT05394140 RT05394140 RT05104140 RT05104140 RT05104140 RT05104140	$\begin{array}{llllllllllllllllllllllllllllllllllll$
JN01 } JN08	8	8	8	3	YJ06001530	Jack, TR Socket
PN00	1	1	1	- 1	YF29630020 ZZ29630020	PN00 TR SOCKET BOARD P.W. Board P.W. Board Assembly
JN01	1	1	1		YJ06001530	Jack
JS01	1	1		1	YJ01000860	Jack, Headphone
PS00	1	1	- 1	1	YK29631320 ZZ29631320	PS00 SPKR SWITCH BOARD P.W. Board P.W. Board Assembly
RS01 RS02 RS03 RS04 SS01 CT01 CT02 CT03 CT04 CT09	1 1 1 1 1 1 1	1		1 1 1 1 1 1 1 1	GJ05331020 GJ05331020 GJ05151010 GJ05151010 SP08020030 DF16103010 DF16103010 DF16103010 EE22601640	Pushswitch, Speaker Film Cap., $0.01μF \pm 10\%$ 50V Film Cap., $0.01μF \pm 10\%$ 50V Film Cap., $0.01μF \pm 10\%$ 50V Film Cap., $0.01μF \pm 10\%$ 50V
CT10 CT11 CT12 QT01 QT02 QT03 QT04 QT05 QT06	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1		1 1 1 1 1 1 1 1 1	EE22601640 EE22601640 HT309452A0 HT309452A0 HT107332A0 HT107332A0 HD20011050 HD20011050	Electrolytic Cap., 22μF 16V Electrolytic Cap., 22μF 16V Transistor, 2SC945 (Q or R) Transistor, 2SC945 (Q or R) Transistor, 2SA733 (Q or R) Transistor, 2SA733 (Q or R) Diode, 1S1555 Diode, 1S1555
QT08 QT09 QT10 QT11 QT12 QT14 QT18 QT16 RT09	9 1 1 1 2 1 3 1 4 1 5 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	HD20011050 HD20011050 HD20011050 HD20011050 HD2003210 HD20003210 HD20003210 HD20003210 GU05332120	Diode, 1S1555 Diode, 1S1555 Diode, 1S1555 Diode, 1S1555 Diode, 1S1555 Diode, 1S2471 Diode, 1S2471 Diode, 1S2471 Diode, 1S2471 Diode, 1S2471 Diode, 1S2471
RT0	- 1	- 1	1	1	GU05332120 GU05332120	

- (U) for U.S.A.(C) for Canada(E) for Europe

REF. DESIG.	_	C C	Y E	PART NO.	DESCRIPTION	REF. DESIG	U.
		Ι.				W001	1
RT08	1	1	1	GU05332120		C401	1
RT09	1	1	1	GU05432120	,	C402	ľ
	1	1	1	GU05432120		C402	1
RT11	1	1	1	GD05201140	1 '		1 -
RT12	1	1	1	GD05201140	Resistor, $200\Omega \pm 5\%$ ¼W	C404	1
RT13	1	1	1	GD05201140	Resistor, $200\Omega \pm 5\%$ ¼W	C405	1
RT14	1	1	1	GD05201140	Resistor, $200\Omega \pm 5\%$ ¼W	C406	1
RT15	1	1	1	GD05201140	Resistor, $200\Omega \pm 5\% $	C409	1
RT16	1	1	1	GD05201140	Resistor, $200\Omega \pm 5\%$ %W	C410	1
RT17	1	1	1	GD05201140	Resistor, 200Ω ±5% ¼W	C411	1
RT18	1	1	1	GD05201140	Resistor, 200Ω ±5% ¼W	C412	1
RT19	1	1	1	GD05820140	Resistor, 82 Ω ±5% ¼W Resistor, 82 Ω ±5% ¼W	C413	1
RT20	1	1	1	GD05820140	Resistor, $82\Omega \pm 5\%$ ¼W	C414	1
T21	1	1	1	GD05820140	Resistor, $82\Omega \pm 5\%$ %W	C415	1
T22	1	1	1	GD05820140	Resistor, $82\Omega \pm 5\%$ ¼W	C416	1
V01	1	1	1	YJ01000860	Jack, Microphone L-ch.	C417	1
V02	1	1	1	YJ01000860	Jack, Microphone R-ch.	C418	1
	ľ		١.	100100000	vack, wherephone it ch.	C419	1
					PV00 MIC JACK BOARD	C420	1
V00	1	1	1	YK29631330		C421	1
V 00	1	1	1	ZZ29631330		ŀ	
	1	١,	'	2229631330	P.W. Board Assembly	C422	1
004				5040004040	51	C423	1
001	1	1	1	EQ10601610	Electrolytic Cap., $10\mu F \pm 10\%$ 16V	C424	1
002	1	1	1	EQ10601610	Electrolytic Cap., 10μF ±10% 16V	C425	1
001	1	1		FS10400050	Fuse, 30mm	C426	1
01			1	FS10400800	Fuse, SEMKO (20mm Type) 4AT	C426	
001	1			BF10400040	Cap. Comp.		1
01		1		BF33300020	Cap. Comp., 0.033μ F+120 Ω ECQ-JC	J401	1
01			1	DO07473540	Oil-Paper Cap., ECN-C4A SEMKO	J402	1
002			1	BF33300010	Cap. Comp., 0.033μF+120Ω AC		
01						1	
?	4	4	4	YJ04000560	Jack, AC Outlet	P400	1
04							1
005				V 100000000	5 11 14- (00 T	P407	4
- 1			1	YJ08000220	Jack, Fuse Holder (20mm Type)	Q401	1
05	1	1		YJ08000230	Jack, Fuse Holder	Q402	1
06			1	YT01010050	Terminal, Ground	Q403	1
07			1	BY03110010	Plug, Voltage Selector	Q404	1
800			1	YL09030010	Terminal,3P		1
21		1	1	YT02040170	Terminal, Pre In, Main Out	Q405	1
22	1	1	1	YT03040160	Terminal, Speaker	Q406	1
23	1	1	1	YT03040160	Terminal, Speaker	R401	1
24	1	1	1	YJ05000250	Jack, LED Socket	R402	1
25	1	1	1	YT01010050	Terminal, Ground	R403	1
01	1	1		TS60506010	Power Transformer, 120V 60 Hz	11.404	•
01			1	TS60506020	Power Transformer, SEMKO	R405	1
021	1	1	1	HT405882B0	Transistor, 2SD588 (Q or R)	R406	1
022	1	1	1	HT405882B0	Transistor, 2SD588 (Q or R)	R407	1
023	1	1	1	HT405882B0	Transistor, 2SD588 (Q or R)	R408	1
024	i	1	i	HT405882B0		R409	1
025	i	1	i	HT206182B0		R410	1
026				HT206182B0	Transistor, 2SB618 (Q or R)	R411	1
	1	1	1		Transistor, 2SB618 (Q or R)	R412	i
027	1	1	1	HT206182B0	Transistor, 2SB618 (Q or R)	R413	i
028	1	1	1	HT206182B0	Transistor, 2SB618 (Q or R)	R414	i
029	1	1	1	HI10004030	L.E.D., SLP-132P	D445	
001	1	1		SP02010280	Pushswitch, Power	R415	1
001			1	SP02010300	Pushswitch, SEMKO	R416	1
002	1	1	1	SS02020380	Slide Switch, DC/AC Coupling	R417	1
/001			1	YC01900030	A.C. Power Cord	R418	1
						R419	1
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REF.		Τ΄Ω		PART NO.	DESCRIPTION
DESIG.	·U	C	E		D 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
W001	1	1		YC02400220	A.C. Power Cord
C401	1	• 1	1	EE22505040	Electrolytic Cap., 2.2µF ±20% 50V
C402	1	1	1	EE22505040	Electrolytic Cap., 2.2µF ±20% 50V
C403	1	1	1	DD12100010	
C404	1	1	1	DD12100010	Ceramic Cap., 10pF ±5% 50V
C405	1	1	1	EV33600660	Electrolytic Cap., 33µF ±20% 6.3V
C406	1	1	1	EV33600660	Electrolytic Cap., 33µF ±20% 6.3V
C409	1	1	1	EA47601090	Electrolytic Cap., 47µF 10V
C410	1	1	1	EA47601090	Electrolytic Cap., 47µF 10V
C411	1	1	1	DD16200010	Ceramic Cap., 20pF ±10% 50V
C412	1	1	1	DD16200010	Ceramic Cap., 20pF ±10% 50V
C413	1	1	1	EE33505040	Electrolytic Cap., 3.3µF ±20% 50V
C414	1	1	1	EE33505040	Electrolytic Cap., 3.3µF ±20% 50V
C415	1	1	1	EE47505040	Electrolytic Cap., 4.7µF ±20% 50V
C416	1	1	1	EE47505040	Electrolytic Cap., 4.7µF ±20% 50V
C417	1	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V
C418	1	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V
C419	1	1	1	DF65391500	Film Cap., 390pF ±5% 125V
C420	1	1	1	DF65391500	Film Cap., 390pF ±5% 125V
C421	1	1	1	DF14122010	Film Cap., 1200pF ±2% 50V
0421	'	'	'	DF 14122010	7 mm Сар., 1200p1 =2% 001
C422	1	1	1	DF14122010	Film Cap., 1200pF ±2% 50V
C422	1	1	1	DF14122010	Film Cap., 5600pF ±5% 50V
C424	1	í	1	DF15562010	1 mil Cap., 3000p
	1	1			1 mm oup.,
C425	1		1	DD16101010	Octamic Cup., 100p
C426	1	1	1	DD16101010	
C427	1	1	1	EA10710010	Licetion tie Oup.,
J401	1	1	1	YP06000400	Plug
J402	1	1	1	YP06000400	Plug
					DAGO DUONO ARAD DOADD
D400				V00000000	P400 PHONO AMP. BOARD
P400	1	1	1	YG29630012	P.W. Board
	1	1	1	ZZ29630010	P.W. Board Assembly
P407			,	3444118050	Spacer, for R435, R436
	4	4	4		
Q401	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q402	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q403	1,	1	1	HT317751F0	Transistor, 2SC1775A F
Q404	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q405	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q406	1	1	1	HT317751F0	Transistor, 2SC1775A F
R401	1	1	1	RT05623140	Resistor, $56k\Omega \pm 5\% $
R402	1	1	1	RT05623140	Resistor, $56k\Omega \pm 5\% $
R403	1	1	1	RT05222140	Resistor, $2.2k\Omega \pm 5\%$ %W
R404	1	1	1	RT05222140	Resistor, $2.2k\Omega \pm 5\%$ %W
					·
R405	1	1	1	RT05334140	Resistor, $330k\Omega \pm 5\% \text{ WW}$
R406	1	1	1	RT05334140	Resistor, $330k\Omega \pm 5\% $
R407	1	1	1	RT05684140	Resistor, $680k\Omega \pm 5\%$ %W
R408	1	1	1	RT05684140	Resistor, $680k\Omega \pm 5\%$ ¼W
R409	1	1	1	RT05433140	Resistor, $43k\Omega \pm 5\%$ %W
R410	1	1	1	RT05433140	Resistor, $43k\Omega \pm 5\%$ ¼W
R411	1	1	1	RT02621140	Resistor, $620\Omega \pm 2\%$ ¼W
R412	1	1	1	RT02621140	Resistor, $620\Omega \pm 2\%$ ¼W
R413	1	1	1	RT05683140	Resistor. $68k\Omega \pm 5\%$ ¼W
R414	1	1	1	RT05683140	Resistor. $68k\Omega \pm 5\%$ ¼W
R415	1	1	1	RT05822140	Resistor, $8.2k\Omega \pm 5\%$ %W
R416	1	1	1	RT05822140	Resistor. 8.2k Ω ±5% ¼W
R417	1	1	1	RT05101140	Resistor, $100\Omega \pm 5\%$ %W
R418	1	1	1	RT05101140	Resistor, $100\Omega \pm 5\%$ ¼W
R419	1	1	1	RT05562140	Resistor, $5.6k\Omega \pm 5\%$ ¼W
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•	(E)	for	Europe

REF.	Q'TY					$\overline{}$	REF.	(יד׳ב	Υ	DART NO	DESCRIPTION			
DESIG.				PART NO.	DESCRIPTION	N		DESIG.	U	С	E	PART NO.	ا ن 	ESCRIPTION	
B430	1	1	,	DTOEFC0140	Resistor, 5.6kΩ	±5%	½W	J701	1	1	1	YP06001040	Plug,	3P	
R420 R421	1	1	1	RT05562140 RT05224140	Resistor, 5.6k Ω Resistor, 220k Ω	±5%	14W	J702	1	1	1	YP06001040	Plug,	3P	
R422	1	1	1	RT05224140	Resistor, 220k Ω	±5%	1/4W	J705	1	1	1	YP06000540	Plug,	6P (SMK)	
R423	1	1	1	RT02683140	Resistor, $68k\Omega$	±2%	14W	L701	1	1	1	LL23915120	Choke Coil		
R424	1	1	i	RT02683140	Resistor, $68k\Omega$	±2%	%W	L702	1	1	1	LL23915120	Choke Coil		
	1	1	1	RT02083140	Resistor, 100Ω	±2%	14W								
1 . 1	1	1	1	RT02101140	Resistor, 100Ω	±2%	1/4W						P700 MAIN	AMP. BOAF	RD
f	i	1	1	RT02473140	Resistor, $47k\Omega$	±2%	14W	P700	1	1	1	YG29640020	P.W. Board		
!	i	1	1	RT02473140	Resistor, $47k\Omega$	±2%	1/4W		1	1	1	ZZ29631020	P.W. Board A	ssembly	
	1	1	1	RT02824140	Resistor, 820kΩ	±2%	¼W								
					•			Q701	1	1	1	HC10003200	IC,	2SK109	(C or D)
R430	1	1	1	RT02824140	Resistor, $820k\Omega$	±2%	14W	Q702	1	1	1	HC10003200	IC,	2SK109	(C or D)
R431	1	1	1	RT05225140	Resistor, $2.2M\Omega$	±5%	1/4W	Q703	1	1	1	HT317752D0		2SC1775A	(D or E)
R432	1	1	1	RT05225140	Resistor, $2.2M\Omega$	±5%	14W	Q704	1	1	1	HT317752D0	-		(D or E)
R433	1	1	1	RT05271140	Resistor, 270Ω	±5%	14W	Q705	1	1	1	HT317752D0	•		(D or E)
R434	1	1	1	RT05271140	Resistor, 270 Ω	±5%	14W	Q706	1	1	1	HT317752D0		2SC1775A	(D or E) (D or E)
1 1	1	1	1	GF05101140	Resistor, 100Ω	±5%	14W	Q707	1	1	1	HT317752D0	•	2SC1775A	(D or E)
R436	1	1	1	GF05332120	Resistor, $3.3k\Omega$		1/2W	Q708 Q709	1	1	1	HT317752D0 HT108722D0	Transistor, Transistor,	2SC1775A 2SA872A	(D or E)
S401	1	1	1	SR09070010	Rotary Switch, Selecto			Q710	1	1	1	HT108722D0	Transistor,	2SA872A	(D or E)
S402]	1	1	SR02030060	Rotary Switch, Tape M		E0.7	2,10	•		'	11110072200	i i ai i sistoi ,	2000120	,
C701	1	1	1	DF65101010	Film Cap., 100pF	±5%	50∨	Q711	1	1	1	HT108722D0	Transistor.	2SA872A	(D or E)
0702	,	4	4	DESE101010	Eilm Con 100-F	+ □ 0/	EOV	0712	1	1	1	HT108722D0	•	2SA872A	(D or E)
C702	1	1	1 1	DF65101010 DF65162010	Film Cap., 100pF Film Cap., 1600pF	±5% ±5%	50∨ 50∨	Q713	1	1	1	HT108722D0		2SA872A	(D or E)
C703	1	1	1	DF65162010	Film Cap., 1600pF	±5%	50V	Q714	1	1	1	HT108722D0		2SA872A	(D or E)
C705	1	1	1	DF16473010	Film Cap., 1600pF		50V	Q715	1	1	1	HT317752D0		2SC1775A	(D or E)
C706	1	1	1	DF16473010	Film Cap., 0.047μF		50V	Q716	1	1	1	HT317752D0	Transistor,	2SC1775A	(D or E)
C707	1	1	1	EA22603590	Electrolytic Cap., 22µF	± 10%	35V	Q717	1	1	1	HT108722E0	Transistor,	2SC872A	(E or F)
C708	1	1	1	EA22603590	Electrolytic Cap., 22µF		35V	Q718	1	1	1	HT108722E0	Transistor,	2SC872A	(E or F)
C709	1	1	1	DD15500500	Ceramic Cap., 50pF	±5%	500V	Q719	1	1	1	HT108722E0	Transistor,	2SC872A	(E or F)
C710	i	1	1	DD15500500	Ceramic Cap., 50pF		500V	Q720	1	1	1	HT108722E0	Transistor,	2SC872A	(E or F)
C711	i	1	1	DF17104540	Film Cap., 0.1μ F		100V								
								Q721	1	1	1	HT109142B0	Transistor,	2SA914	(R or S)
C712	1	1	1	DF17104540	Film Cap., 0.1μF		100V	Q722	1	1	1	HT109142B0	Transistor,	2SA914	(R or S)
C713	1	1	1	DF17104540	Film Cap., 0.1µF		100∨	Q723	1	1	1	HT319532B0	Transistor,	2SC1953	(R or S)
C714	1	1	1	DF17104540	Film Cap., 0.1μF		100∨	Q724	1	1	1	HT319532B0	Transistor,	2SC1953	(R or S)
C715	1	1	1	EA22603590	Electrolytic Cap., 22µF		100∨	Q725	1	1	1	HT319132B0	Transistor,	2SC1913	(R or S) (R or S)
C716	1	1	1	EA22603590	Electrolytic Cap., 22µF		100∨	Q726 Q727	1	1	1	HT319132B0	Transistor,	2SC1913 2SA913	(R or S)
C717	1	1	1	DF65301510	Film Cap., 300pF	±5%		Q728	1	1	1	HT109132B0 HT109132B0	Transistor, Transistor,	2SA913	(R or S)
C718	1	1	1	DF65301510	Film Cap., 300pF	±5%		Q729	1	1	1	HD20011050	Diode,	1S1555	(11 01 0)
C719	1	1	1	DF65271510	Film Cap., 270pF	±5%		Q730	1	1	1	HD20011050	Diode,	1S1555	
C720	1	1	1	DF65271510	Film Cap., 270pF	±5%	501/	4,00	•	١.	١.	115,20011000	Diode,	101000	
C721	1	1	1	DF16473010	Film Cap., 0.047μF	±10%	50V	Q731	1	1	1	HD30046090	Zener,	WZ-310	
C722	,	1	1	DF16473010	Film Cap., 0.047μF	+10%	50∨	0732	1	1	1	HD30046090	Zener,	WZ-310	
	1	1	1	EA10605090	Electrolytic Cap., 10μF	± 1 U 70	50V	Q733	1	1	1	HD30046090	Zener,	WZ-310	
1 - 1	1	1	1	EA10605090	Electrolytic Cap., 10μF		50V 50V	Q734		1	1	HD30046090	Zener,	WZ-310	
l l	1	1	1	DF17104540	Film Cap., 0.1µF		100V	Q735		1	1	HD20011050	Diode,	1S1555	
C726	1	1	1	DF17104540	Film Cap., 0.1µF		100V	Q736	1	1	1	HD20011050	Diode,	1S1555	
	1	1	1	DF17104540	Film Cap., 0.1µF		100V	Q737	1	1	1	HD20003210	Diode,	1S2471	
C728	1	1		DF17104540	Film Cap., 0.1µF		100∨	Q738	1	1	1	HD20003210	Diode,	1S2471	
C729	1	1	1	DF17104540	Film Cap., 0.1µF		100V	Q739	1	1	1	HD20003210	Diode,	1S2471	(Black)
C730	1	1	1	DF17104540	Film Cap., 0.1μF		100∨	Q740	1	1	1	HD20003210	Diode,	1S2471	
C731	1	1		EA47606390	Electrolytic Cap., 47μF		63V	1					l., .		
								Q741	1	1	1	HV00004120	Varistor,	M ∨-1	
C732	1	1		EA47606390	Electrolytic Cap., 47μF		63V	Q742	1	1	1	HV00004120	Varistor,	MV-1	
C733	1	1		EA47606390	Electrolytic Cap., 47μF		63V	Q743	1		1	HV00004120	Varistor,	MV-1	
C734	1	1		EA47606390	Electrolytic Cap., 47μF		63V	Q744	1	1	1	HV00004120	Varistor,	MV-1	
C735	1	1		DF16104010	Film Cap., 0.1μ F		50V	Q745 Q746	1		1	HH00007030 HH00007030	Thermistor,	SDT-100 SDT-100	
C736	1	1		DF16104010	Film Cap., 0.1µF		50V	Q747			1	HH00007030	Thermistor, Thermistor,	SDT-100 SDT-100	
C737	1	1		DF16104010	Film Cap., 0.1μ F		50V	""	'	' '	'	11100007030	inelinistor,	301-100	
C738	1	1	1	DF16104010	Film Cap., 0.1μF		50V								
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	Canada Europe

REF.		Ω'Τ		PART NO.	D	ESCRIPTIC	N.		REF.		2′T		PART NO.	DESC	RIPTIO	N	
DESIG.	U	C	E						DESIG.	L	_	_					
									R751	1	1	1	GD05680140	Resistor,	68Ω	±5%	½W
Q748	1	1	1	HH00007030	Thermistor	SDT-100			R752	1	1	ľ	GD05680140	Resistor,	68Ω	±5%	1/4W
0749	1	1	1	HD20005010	Diode,	W06B			R753	1	1	1	GD05470140	Resistor,	47Ω	±5%	½W
Q750	1	1	1	HD20005010	Diode,	W06B			R754	1	1	1	GD05470140	Resistor,	47Ω	±5%	14W
Q752	1	1	1	HD20005010 HD20005010	Diode, Diode,	W06B W06B			R755	1	1	1	GD05470140	Resistor,	47Ω	±5%	14W
Q753	1	1	1	HD20003010	Diode,	1S2471			R756	1	1	1	GD05470140	Resistor,	47Ω	±5%	½W
Q754	i	1	1	HD20003210	Diode,	182471		l	R757	1	1	1	GD05273140	Resistor,	$27k\Omega$	±5%	14W
R701	1	1	1	GD05332140	Resistor,	3.3kΩ	±5%	14W	R758	1	1	1	GD05273140	Resistor,	27 k Ω	±5%	1/4W
R702	1	1	1	GD05332140	Resistor,	3.3 k Ω	±5%	14W	R759	1	1	1	GF05100140	Resistor,	10Ω	±5%	1/4 W
R703	1	1	1	GD05333140	Resistor,	$33k\Omega$	±5%	14W	R760	1	1	1	GF05100140	Resistor,	10Ω	±5%	14W
R704	1	1	1	GD05333140	Resistor,	33kΩ	±5%	¼W	R761	1	1	1	GF05100140	Resistor,	10Ω	±5%	14W
R705	1	1	1	GD05821140	Resistor,	820Ω	±5%	½W	R762	1	1	1	GF05100140	Resistor,	10Ω	±5%	1/4W
R706	1	1	1	GD05821140	Resistor,	820Ω	±5%	1/4W	R763	1	1	1	GD05100140	Resistor,	10Ω	±5%	1/4W
R707	1	1	1	GD05821140	Resistor,	820Ω	±5%	1/4W	R764	1	1	1	GD05100140	Resistor,	10Ω	±5%	1/4W
R708	1	1	1	GD05821140	Resistor,	820Ω	±5%	14W	R765	1	1	1	GD05100140	Resistor,	10Ω	±5%	14W 14W
R709	1	1	1	GD05101140	Resistor,	100Ω	±5%	14W	R766	1	1	1	GD05100140	Resistor,	10Ω	±5%	1W
R710	1	1	1	GD05101140	Resistor,	100Ω	±5%	1/4W	R767	1	1	1	GJ05562010	Resistor, Resistor,	5.6k Ω	±5% ±5%	1W
R711	1	1	1	GD05513140	Resistor,	51kΩ	±5%	1/4W	R768	1	1	1	GJ05562010 GJ05562010	Resistor,	5.6kΩ	±5%	1W
R712	1	1	1	GD05513140	Resistor,	51kΩ	±5%	1/4W	R769	1	1	1	GJ05562010	Resistor,	5.6kΩ	±5%	1W
R713	1	1	1	GD05152140	Resistor,	1.5kΩ	±5%	14W	"/"	'	'	'	G305502010	riesistor,	J.0K12	_5/0	
R714	1	1	1	GD05152140	Resistor,	$1.5 \mathrm{k}\Omega$	±5%	14W	R771	1	1	1	GD05101140	Resistor,	100Ω	±5%	14W
R715	1	1	1	GD05823140	Resistor,	82kΩ	±5%	14W	R772	1	1	1	GD05101140	Resistor,	100Ω	±5%	14W
R716	1	1	1	GD05823140	Resistor,	82kΩ	±5%	1/4W	R773	1	1	1	GD05101140	Resistor,	100Ω	±5%	1/4W
R717	1	1	1	GD05153140	Resistor,	15k Ω	±5%	14W	R774	1	1	1	GD05101140	Resistor,	100Ω	±5%	1/4W
R718	1	1	1	GD05153140	Resistor,	15k Ω	±5%	14W	R775	1	1	1	GF05330140	Resistor,	33Ω	±5%	1/4W
R719	1	1	1	GD05102140	Resistor,	1kΩ	±5%	14W	R776	1	1	1	GF05330140	Resistor,	33Ω	±5%	1/4W
R720	1	1	1	GD05102140	Resistor,	1kΩ	±5%	14W	R777	1	1	1	GF05330140	Resistor,	33Ω	±5%	%W %W
R721	1	1	1	GD05473140	Resistor,	$47 k\Omega$	±5%	14W	R778	1	1	1	GF05330140	Resistor,	33Ω	±5%	1/2W
R722	1	1	1	GD05473140	Resistor,	$47k\Omega$	±5%	14W	R779	1	1	1	GF05240120	Resistor,	24Ω	±5% ±5%	1/2W
R723	1	1	1	GD05132140	Resistor,	1.3kΩ	± 5%	14W	R780	1	1	1	GF05240120	Resistor,	24Ω	±5%	/2 V V
R724	1	1	1	GD05132140	Resistor,	1.3kΩ	±5%	½W	R781	1	1	1	GF05240120	Resistor,	24Ω	±5%	1/2W
R725	1	1	1	GD05223140	Resistor,	22kΩ	±5%	14W	R782	1	1	1	GF05240120	Resistor,	24Ω	±5%	1∕2W
R726	1	1	1	GD05223140	Resistor,	22kΩ	±5%	1/4W	R783	1	1	1	RT05033140	Resistor,	3.3Ω	±5%	1/4W
R727	1	1	1	GJ05222010	Resistor,	2.2kΩ	±5%	1/4W	R784	1	1	1	RT05033140	Resistor,	3.3Ω	±5%	14W
R728	1	1	1	GJ05222010	Resistor,	2.2kΩ	±5%	1/4W	R785	1	1	1	RT05033140	Resistor,	3.3Ω	±5%	1/4W
R729	1	1	1	GJ05152010	Resistor,	1.5k Ω	±5%	1/4W	R786	1	1.	1	RT05033140	Resistor,	3.3Ω	±5%	1/4W
R730	1	1	1	GJ05152010	Resistor,	$1.5 k\Omega$	±5%	14W	R787	1	1	1	GW10332030	Resistor,	0.33Ω		3W
R731	1	1	1	GD05153140	Resistor,	15k Ω	±5%	14W	R788	1	1	1	GW10272030	Resistor,	0.27Ω		3W
R732	1	1	1	GD05153140	Resistor,	15kΩ	±5%	1/4W	R789	1	1	1	GW10332030	Resistor,	0.33Ω		3W
R733	1	1	1	GD05153140	Resistor,	15kΩ	±5%	14W	R790	1	1	1	GW10332030	Resistor,	0.33Ω	±10%	3W
R734	1	1	1	GD05153140	Resistor,	15kΩ	±5%	14W	R791	1	1	1	GW10332030	Resistor,	0.33Ω		3W
R735	1	1	1	GD05561140	Resistor,	560Ω	±5%	1/4W	R792	1	1	1	GW10332030		0.33Ω		3W
R736	1	1	1	GD05561140	Resistor,	560Ω	±5%	1/4W	R793	1	1	1	GW10332030	•	0.33Ω		3W
	1	1	1	GD05561140	Resistor,	560Ω	±5%	1/4W	R794		1	1	GW10332030		0.33Ω 10Ω	±10%	3W 3W
R738	1	1	1	GD05561140	Resistor,	560Ω	±5%	1/4W	R795	1	1	1	GJ05100030 GJ05100030	Resistor,	10Ω	±5%	3W
	1	1		RA02230050	Trimming Res	•	22kΩCl	- 1	R796	1	1	1	GJ05100030	Resistor, Resistor,	2.2Ω		2W
1	1	1	1	RA02230050	Trimming Res	•	22kΩCl	. 1			1	1	GJ05022020		2.2Ω		2W
R741	1	1	i	GD05203140	Resistor,	20kΩ	±5%	1/4W	R798	1	1	1	EB10905010	Resistor, Electrolytic Cap.			50V
R742 R743	1	1	t .	GD05203140 GD05222140	Resistor, Resistor,	20kΩ 2.2kΩ	±5% ±5%	14W 14W	C852	1	1	1	EB10905010	Electrolytic Cap.		•	50V
									C853	1	1	1	EB22716010	Electrolytic Cap.	, 270	μF	160V
R744	1	1		GD05222140	Resistor,	2.2kΩ	±5%	1/4W	C854	1	1	1	EA10725090	Electrolytic Cap.			25V
R745	1	1	1	GD05222140	Resistor,	2.2kΩ	±5%	1/4W	C855	1	1	1	DK18103510	Ceramic Cap.,	0.01	•	500V
R746 R747	1	1	1	GD05222140 GD05470140	Resistor,	2.2kΩ	±5%	1/4W	C856	1	1	1	EA10610010	Electrolytic Cap.		μF	100V
R748	1	1	Ι.	GD05470140	Resistor, Resistor,	47Ω 47Ω	±5% ±5%	14W 14W	C857	1	1	1	EA47601690	Electrolytic Cap.	•	μF	16V
R749	1		1	GD05470140	Resistor,	47Ω 47Ω	±5% ±5%	1/4W	C858	1	1	1	EA22701690	Electrolytic Cap.			16V
	1		1	GD05470140	Resistor,	47Ω 47Ω	±5%	1/4W	C859	1	1	1	EA22605090	Electrolytic Cap.		ĽμF	50V
		'	Ι΄.	2233-770140		7/12	± J /0	/4 4 4	C861	1	1	1	EA22605090	Electrolytic Cap.		2μF	50V
l .								1	C863	1	1	1	EA10616010	Electrolytic Cap.	, 10	μF	160V
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REF.	-	J O	T)	E	PART	NO.		DESCRIPTI	ON	
F851 J868 J869 L851			1	1 1 1	FS1002 YJ0800 YJ0800 LY4024	0200 0200	Jack, Fuse	(O (20mm T Socket Socket	ype) 25	0MA
P850	1	- 1	1	1 1	YK2963 ZZ2963		P.W. Board	ER SUPPLY Assembly	BOAF	RD
Q851 Q852 Q853 Q854 Q855 Q856 Q857 Q858 Q859 Q860	1 1 1 1 1 1 1	1 1 1 1 1		1 1 1	HD2000 HD2001 HD2001 HD2001 HD2001 HT3094 HT3094 HT3191 HT3177	11010 11010 11010 11050 52A0 52A0 32B0	Diode, Diode, Diode, Diode, Transistor, Transistor, Transistor, Transistor,	S5VB20 W W06C W06C W06C 1S1555 2SC945 2SC945 2SC945 2SC945 2SC1913 2SC1775A	(Q or (Q or	r R) r R) r R)
Q861 Q862 Q863 R851 R852 R853 R854 R855 R856 R857	111111111	1 1 1 1 1 1 1 1 1	1 1 1 1		HD3003 HD2001 HD2001 GJ05101 RT0556: RT0556: RT0556: RT0515:	1050 1010 1010 2140 2140 2140 3140 3140	Diode, Diode, Resistor, Resistor, Resistor, Resistor,	WZ-240 1\$1555 W06C 100Ω 5.6kΩ 5.6kΩ 8.2kΩ 56kΩ 15kΩ 20kΩ	±5% ±5% ±5% ±5% ±5% ±5%	1W %W %W %W %W %W
R858 R859 R860 R861 R862 R863 R864 R865 R866	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	F	RT0568: RT05243 RT05224 RT05104 GF05100 GF05562 GF05562 RT05560 GJ05562	3140 4140 4140 0140 2120 2120 0140	Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor,	6.8kΩ 24kΩ 220kΩ 100kΩ 10Ω 5.6kΩ 5.6kΩ 56Ω 5.6kΩ	±5% ±5% ±5% ±5% ±5% ±5% ±5%	14W 14W 14W 14W 14W 12W 14W 14W

12. TECHNICAL SPECIFICATIONS

FOR U.S.A. MODEL ONLY AMPLIFIER SECTION: RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER PER CHANNEL, BOTH CHANNELS DRIVEN 61W I.M. Distortion (I.H.F. method, 60Hz and 7kHz mixed 4:1 at rated power output) | power output | at 8 ohm load impedance | 0.03% | at 4 ohm load impedance | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0 PREAMPLIFIER SECTION: (Dynamic Range is the ratio of input overload to (Dynamic Range is the ratio of input overload to equivalent input noise) 109 dB Input Sensitivity 1.8 mV Input Impedance 47k ohms Frequency Response, RIAA 20Hz to 20kHz ±0.3 dB Signal-to-Noise Ratio ("A" WEIGHTED) (at rated output and 7.75 mV input) 83 dB

Input Impedance 20k ohm
Frequency Response
(includes power amp) 5Hz to 60kHz ±1.0 dE Signal-to-Noise Ratio ("A" WEIGHTED)
(ref. to rated output and 775 mV input) 93 dB
Output Levels
Tape Out (ref. 7.75 mV at Phono inputs) 775 mV Pre-Out (ref. 180 mV at Aux inputs) 1.5 V
(ref. 500 mV at Aux inputs, main amp
disconnected) 4.2 V
Output Impedance
Tape Out
Pre-Out
GENERAL:
Power Requirements
operating
Iding Power (Volume Control at zero) 50 Watts
Dimensions:
Panel Haight
Panel Height
Weight: 312 mm (12-3/8")
Unit alone
Packed for Shipment

FOR EUROPEAN MODEL ONLY

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POWER OUTPUT AT 1% DISTORTION 120 W RATED POWER OUTPUT, 1kHz 76 W TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT, 1kHz 0.09% I.M. DISTORTION AT RATED POWER OUTPUT	1
(I.H.F. METHOD, 300 Hz AND 10 kHz MIXED 4:1 AT RATED POWER OUTPUT)	:
LOAD IMPEDANCE 4 OHMS POWER OUTPUT AT 1% DISTORTION 75 W RATED POWER OUTPUT, 1 kHz 61 W	1
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT, 1 kHz	•
(I.H.F. METHOD, 300 Hz AND 10 kHz MIXED 4:1 AT RATED POWER OUTPUT)	:

Damping Fac	ctor, SP Outp	out																
40 Hz																		60
1 kHz																		50
12.5 kHz																		45
Frequency R																		
Phono																	±0.5	
Aux	±1.5 dB .									٠							±0.5	
Main In	±1.5 dB .															:	±0.2	dB
Signal-to-No	ise Ratio, 1 k	Hz																
Phono .																	56	dB
Aux																	91	dΒ
Main In																	58	dB
Input Sensiti	vity, 1 kHz (Rated	In	pu	t١	/ol	ta	ge!)									
																	1.8	mV
Input Imped									·									
															4	7	k ol	nms
Phono Equiv																		
Phono Dyna																		
Phono Input																		
Channal Bala			•	•	•	•	٠		•	•	•	•	•	•	•	•		
Phono	0~-40 d	R															2.5	dB
Aux	40 Hz ~ 16																	dB
Main In	40112																	dB
Interchannel				•	•	•	•	٠.	•	٠	•	•	•	•	•	•		ub
Phone	•																13	dB
Filono	250 Hz ~ 1																	dB
A																		dB
Aux																		dB
-	250 Hz ~ 1																	dB
Tape																		
	250 Hz \sim 1	UKHZ		•		•	٠		٠	•	•	•	٠	•	•	•	33	dB

Main In
Intersource Crosstalk, Worst Point
1 kHz
250 Hz ~ 10 kHz
Output Voltage, 1 kHz
Tape Out
Pre Out
Output Impedance, 1 kHz
Tape Out
Pre Out
Power Consumption
Idling
Rated Power, 1 kHz
GENERAL:
Power Requirements
(E and N versions are featuring an external voltage
selector for use on 110/120/240 V. Other versions
selector for use on 110/120/240 V. Other versions
can be converted by a qualified technician to
can be converted by a qualified technician to operate on 110/120/240 V.)
can be converted by a qualified technician to operate on 110/120/240 V.) Power Consumption at rated output, both channels
can be converted by a qualified technician to operate on 110/120/240 V.) Power Consumption at rated output, both channels operating
can be converted by a qualified technician to operate on 110/120/240 V.) Power Consumption at rated output, both channels operating
can be converted by a qualified technician to operate on 110/120/240 V.) Power Consumption at rated output, both channels operating
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